USSR / Human and Animal Physiology. Nervous System. T Higher Nervous Activity. Behavior.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102273.

Abstract: stressed; the concept of P of HNA and their essence is analyzed, the problem of their psychological manifestation is laid down (P of HNA as the physiological basis of the peculiarities of temperament, character and abilities).-- M. I. Lisina.

Card 2/2

101

TEPLOV, B.M.; BORISOVA, N.M.

Sensitivity to discrimination and sensorial memory. Vop.psikhol.3 no.1:61-77 Ja-F 157 (MIRA 10:3)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva.
(Memory) (Perception)

Principal ideas in the psychological works of H.N. lange; on the TEPLOY, B.H. Principal ideas in the psychological works of with Summary in English]. Yop.psikhal. centennial of his birth [with summary in English]. (MIRA 12:1)

4 no.6:44-65 N-D 158.

1. Institut psikhologii APN RSFSR. Moskva. (Psychology) (Lange, Nikolai Nikolaevich, 1858-1921)

CIA-RDP86-00513R001755310018-0" APPROVED FOR RELEASE: 07/16/2001

ANAN'YEV, B.G., red.; KOSTYUK, G.S., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; MENCHINSKAYA, N.A., red.; EUBINSHTEYN, S.L., red.; SMIRNOV, A.A., red.; TEPLOV, B.M., red.; SHEMYAKIN, F.N., red.; ZHUKOV, I.V., red.; PONOMAREV, Ya.A., red.; MATTUSHKIN, A.M., red.; LAUT, V.G., tekhn.red.

[Psychology in the U.S.S.R.] Psikhologicheskaia nauka v SSSR. Moskva, Vol.1. 1959. 597 p. (MIRA 12:8)

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(Psychology)

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TEPLOY, B.M., otv.red.; TARASOVA, K.V., red.; NOVOSELOVA, V.V., tekhn.red.

[Typological peculiarities of the higher nervous system in man] Tipologicheskie osobennosti vysshei nervnoi deiatel'nosti cheloveka. Otvet.red.B.M.Teplov. Moskva, Vol.2. 1959. 228 p. (MIRA 13:6)

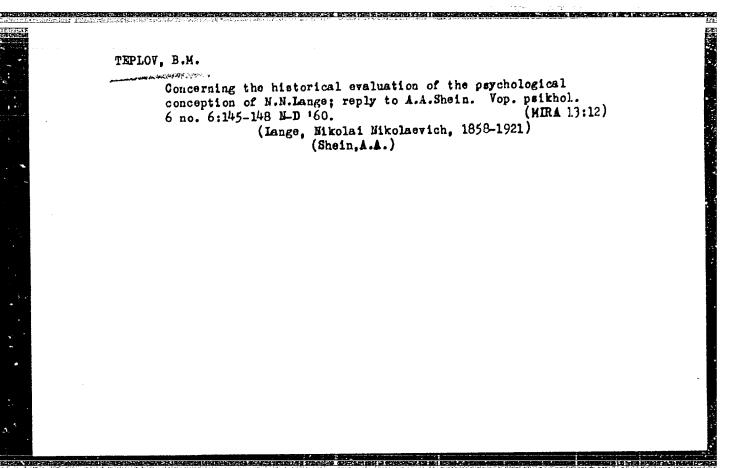
1.Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut psikhologii. 2. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Teplov).

(TEMPERAMENT) (NERVOUS SYSTEM)

ANAN'YEV, B.G., red.; KOSTYUK, G.S., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; MENCHINSKAYA, N.A., red.; RUBINSHTEYN, S.L., red. [deceased]; SMIRNOV, A.A., red.; TEPLOV, B.W., red.; SHEMYAKIH, F.N., red.; PONOMAREV, Ya.A., red.; LAUT, V.G., tekhn.red.

[Psychology in the U.S.S.R.] Psikhologicheskaia nauka v SSSR. Moskva. Vol.2. 1960. 653 p. (MIRA 14:1)

1. Akademiya pedagogicheskikh nauk RSFSR. Institut psikhologii. (Psychology)



TEPLOV, Boris M. (USSR)

"Les Fondements Psychologiques des Differences Individuelles."

Paper presented at the 14th International Congress of Applied Psychology, Copenhagen, Denmark, 13-19 Aug. 1961.

RUBINSHTEYN, S.L.; SOKOLOV, A.N.; LURIYA, A.R.; LEONT YEV, A.N.; SMIRHOV, A.A.; GONOBOLIN, F.N.; MENCHINSKAYA N.A.; ZHINKIN, N.I.; IGNAT YEV, Ye.N.; EL'KONIN, D.B.; GJREVICH, K.M.; GUR YAHOV, Ye.V.; LEYTES, N.S.; KRUTETSKIY, V.A. Frinicali uchastiye: FOLYAKOV, G.I.; SHEMYAKIN, F.N.; TEPLOV, B.M., red.; VVEDENSKAYA, L.A., red.; DRANNIKOVA, M.S., tekhn. red.

[Psychology]Psikhologiia; uchebnik dlia pedagogicheskikh institutov. Pod red. A.A.Smirnova i dr. Izd.2. Moskva, Uchpedgiz, 1962. 558 p. 1. Akademiya podagogicheskikh nauk RSFSR, Moscow. In—(MIRA 15:11) stitut psikhologii.

(PSYCHOLOGY)

TEPLOV, B.M., otv. red.; DENOTKINA, L.S., red.; NOVOSELOVA, V.V., tekhn. red.

[Typological characteristics of higher nervous activity in man] Tipologicheskie osobennosti vysshei nervnoi deiatel'-nosti cheloveka. Moskva, Îzd-vo APN RSFSR. Vol.3. 1963. 273 p. (MIRA 16:10)

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(NERVOUS SISTEM)

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(MIRA 16:4)

(Helmholtz, Herman, 1821-1894)

TEPLOV, B.M.; NEBYLITSYN, V.D.

Study of the basic properties of the nervous system and their importance for the psychology of individual differences.

Vop. psikhol. 9 no.5:38-47 S-0'63. (MIRA 17:2)

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TEPLOV, B.M.; NEBILITSIN, V.D.

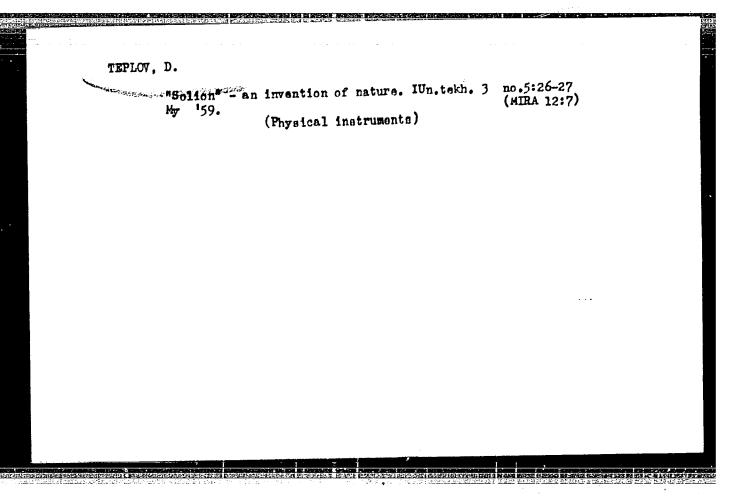
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1. Laboratory of Psychophysiology, Institute of Psychology, R.S.F.S.R. Academy of Pedagogical Sciences, Moscow.

TEPLOV, B. M.

"Sovremennoye sostoyaniye voprosa o tipakh vysskey nervnoy deyatel nosti cheloveka i metodikakh ikh opredeleniya."

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Teplow, D. Yu. — "Scientific-Technical Abstract Journals and Certain Questions of the Organization of Scientific Information in the USSR." Min Culture RSFSR, Leningrad State Library Inst imeni N. K. Krupskaya, Leningrad, 1955 (Dissertation for the Degree of Candidate of Pedagogical Sciences)

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TEPLOV, Daniil Yur'yevich; MIREK, V.F., otv. red.; SUVOROV, I.V., red. izd-va; GALIGANOVA, L.M., tekhn. red.

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A.B.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 241 (USSR)

AUTHORS: Teplov, F.S., Vol'vak, N. Ya.

TITLE: Experiences in the Employment of Trolley Bus Rear-axle Shafts

Strengthened by Shot Peening (Opyt ekspluatatsii poluosey trolleybusa, uprochnennykh drobestruynym naklepom)

PERIODICAL: V sb.: Vopr. konstrukts. prochnosti stali. Moscow, Mashgiz,

1957, pp 100-103 # R5

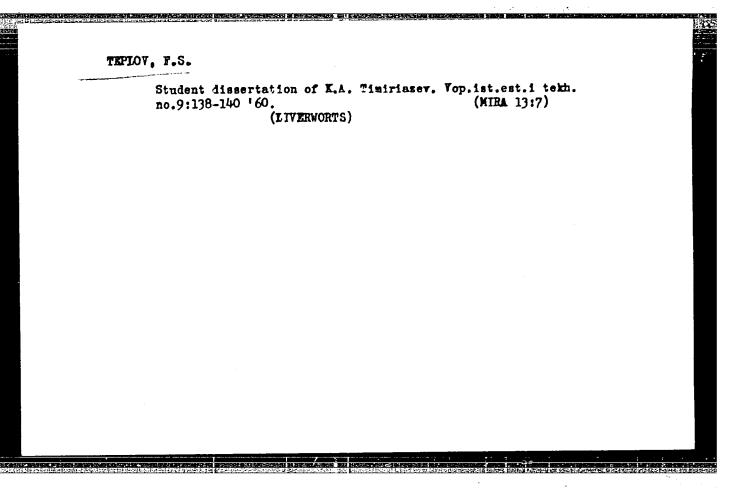
ABSTRACT: A communication to the effect that shot peening of trolley bus

rear-axle shafts made of 37KhNZA steel and heat treated for R_C 44-46 increases the service life almost threefold. The economies due to the introduction of axle shafts strengthened by shot peening at the Moscow Trolley Bus Depots is about 400-500,000 publications.

rubles per year. It is recommended that auto and tractor plants transfer to the strengthening of axle shafts and other parts by shot peening.

1. Machine parts-Peening 2. Steel-Heat treating

Card 1/1



TEPLOV, G., inzh.

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DLC: TJ1135. T38 1946

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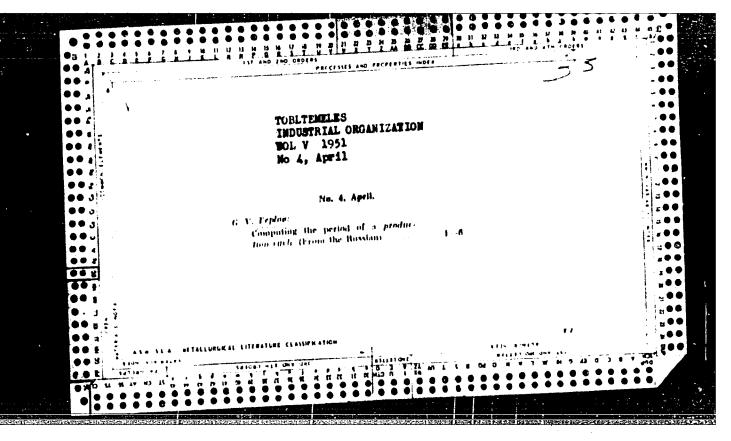
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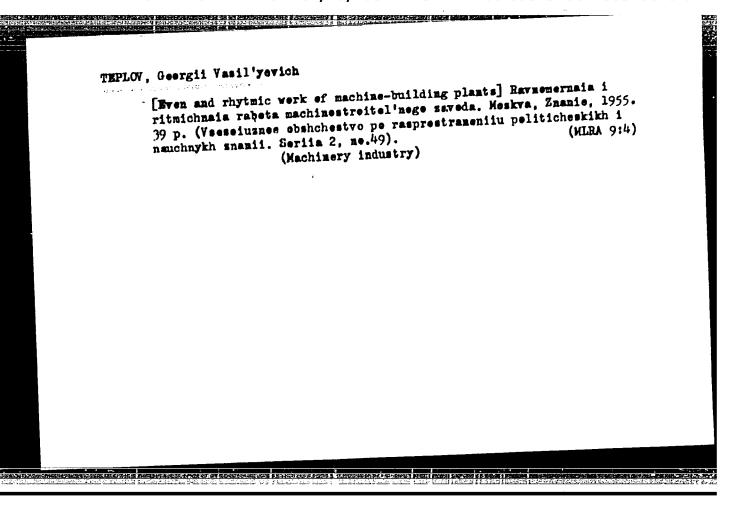


TEPLOY, G.V.; PRUDENSKIY, G.A., doktor ekonomicheskikh nauk, retsenzent;

ZHED*, M.S., inshener, retsenzent.

[Planning in machinebuilding plants] Planirovanie na mashinostroitel'nykh savodakh. Isd.2., perer.i dop. Moskva, Gos. nauchno-tekh.
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(Machinery industry)



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Academic title of Doctor of Economic Sciences, based on his defense 8 January 1954 in the Council of Moscow Engineering-Economic Inst imeni Ordzhonikidze, of his dissertation entitled: "Economic Problems in the Planning of Production Management Activity of Socialist Industrial Enterprises," and the Academic title of Professor in the Chair: "Economics and Organization of Enterprises."

Academic degree: Doctor of Sciences

Academic title: Professor

SO: Decisions of VAK, List no. 12, 28 May 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp. 5-24, Unel. JPRS/NY-537

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ROZENBERG, Ivan Aleksandrovich; TEPLOY, G.V., doktor ekonomicheskikh nauk professor, retsenzent; DUGINA, N.A., tekhnicheskiy redaktor

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Lev Yakovlevich, dotsent, kand.tekhn.nauk; TEPLOV, Georgiy

Vasil¹yevich, prof., doktor ekonom.nauk; TATUR, Sergey Kuz¹mich,

prof., doktor ekonom.nauk; KATSENBOUEN, Boris Yakovlevich,

dotsent, kand.tekhn.nauk [deceased]; LETENKO, Viktor Aleksandrovich,

dotsent, kand.ekonom.nauk; MURAV¹YEV, Mikhail Semenovich, dotsent,

kand.tekhn.nauk; KOMAROV, F.V., inzh., retsenzent; METT, G.Ya.,

dotsent, red.; SALYANSKIY, A.A., red.izd-va; SOKOLOVA, T.F., tekhn.

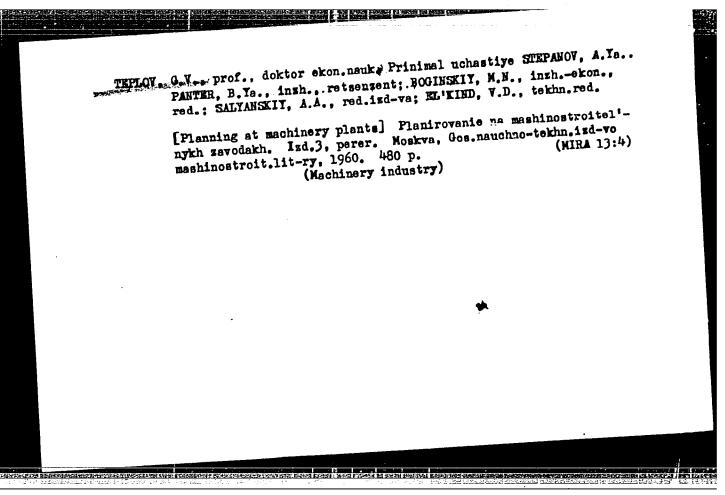
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KARPENKO, A.P.; GRIGOR'YEV, A.Ye.; FILIPPOV, V.F.;

PERESLEGIN, V.I.; TYAGAY, Ye., red.; TROYANOVSKAYA, N.,

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[Economics of industrial enterprises] Ekonomika promyshlennykh predpriiatii; uchebnik. 3. izd., perer. Moskva, Gospolitizdat, 1963. 574 p. (MIRA 16:10)

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THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

PAVLOVA, A.I.; GUNEYEV, G.S., inzh.-ekon. retsenzent; TEPLOV, G.V., doktor ekon. nauk, red.; SALYANSKIY, A.A., red.1sd-va

[Planning by individual orders in machinery manufacturing]
Planirovanie po individual nym zakazam v mashinostroenii.
Moskva, Mashgiz, 1963. 70 p.
(MIRA 16:10)

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TEPLOV, Georgiy Vasil'yevich, doktor ekon. nauk, prof.; STEPANOV, A.Y.; EYDEL'MAN, B.I., red.

[Planning in an industrial enterprise; theory and practice] Planirovanie na promyshlennom predpriiatii; teoriia i praktika. Moskva, Ekonomika, 1964. 478 p. (MIRA 17:12)

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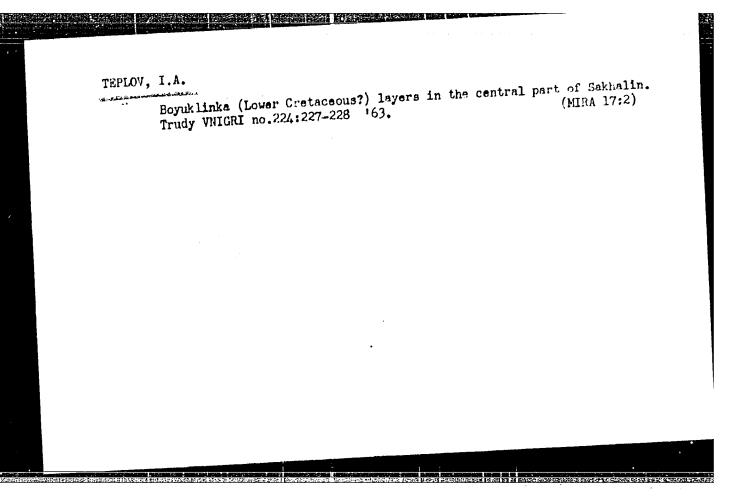
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MAVRINSKTY, Yu.S.; TEPLOV, I.A.

Tectonics and the oil potential of northwestern Sakhalin. Trudy
(MIRA 15:2)
VNIGRI no.181:140-153 '61.
(Sakhalin--Petroleum geology)

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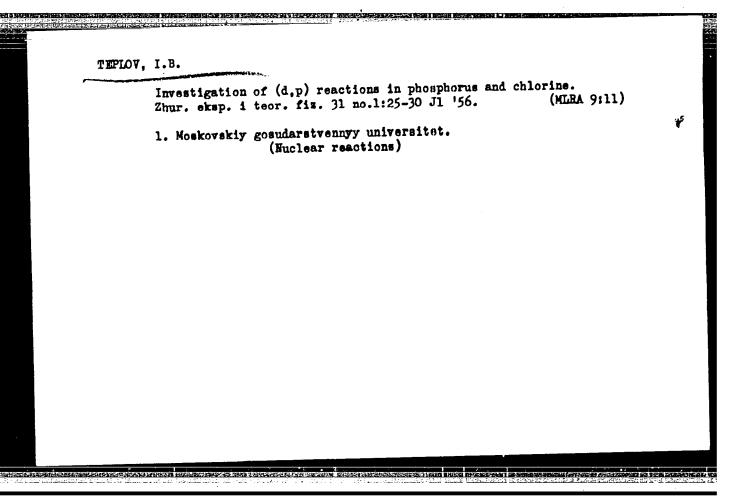
Teplov, Georgiy Vasil'yevich, Doctor of Economic Sciences, Professor

- Planirovaniye na mashinostroitel'nykh zavodakh (Planning at Machinery Plants) 3d ed., rev. Moscow, Mashgiz, 1960. 480 p. Errata slip inserted. 15,000 copies printed.
- Reviewer: B.Ya. Panter, Engineer; Ed.: M.N. Boginskiy, Engineer-Economist;
 Managing Ed. for Literature on the Economics and Organization of Production:
 T.D. Saksaganskiy, Engineer; Ed. of Publishing House: A.A. Salyanskiy; Tech.
 Ed.: V.D. El'kind,
- PURPOSE: This textbook is intended for students of institutes of engineering and economics and schools of higher education specializing in machinery construction. It can be used by personnel of the machinery-construction industry.
- COVERAGE: The book presents the theory and practice of compiling, analyzing, and fulfilling plans at various machinery-construction plants having different volumes of output. The following topics are discussed: content and goals of

Card 1/9

sov/4788 Planning at Machinery Plants planning; production cycle and its duration; problems in the smooth functioning of an establishment; and planning of production, supply, size of labor force, pay, costs, finance, and technical development of an establishment. Chapter IX was compiled by A.Ya. Stepanov. There are 36 references, all Soviet. TABLE OF CONTENTS: 3 From the Author Ch. I. Content and Goals of Planning at Machinery-Construction Plants 5 , 11 1. General considerations 2. Content and goals of planning at the plant 18 3. Sequence in compiling long-term and annual plans 4. Systems of planning inside the plant 5. Advanced norms as the basis for planning inside the plant 6. The self-supporting basis as a guiding method for fulfilling a plan 25 32 39 43 7. Organizing planned operations at the plant 61 8. Organizing the controller service 9. Participation by the Party and trade-union organizations in the 70 planning work Card-2/9-

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310018-0

TEPLOV, I. B.

With MEUDACHIN, V. G., "Reaction Cross Section on Deuteron Energy," with YURYEV, B. A. "Dependence of Angular Distributions in Stripping Reactions upon the Charge of the farget Suclei

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Moscow State University)

papers submitted at the A-U Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 Nov 1957.

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nOn TUA TITLE

TEPLOV, I.B., JUR EV, B.A., MARKELOVA, T.N. PA = 2036The Angular Distribution of the Products of the Reaction S32(d,p) S33.

(Russian)

PERIODICAL

Zhurnal Eksperimental noi i Teoret Fiziki, 1957, Vol 32, Nr 1,

pp 165-166 (U.S.S.R.)

Received 3/1.957

ABSTRACT

At present the reactions of the type (d,p) have already been investigated for many isotopes of light nuclei. However, in the case of most of the investigated nuclei (with the exception of the very lightest) experiments were carried out only at a value of the energy of the inciding particles. At the same time the investigation of the form of the angular distributions of the products of such reactions at different energy values of the impinging deuterons is of interest for the more precise description of the theory of the stripping reaction. Therefore the authors determined the angular distributions of these protons which are produced on the occasion of the reaction $S^{32}(d,p)S^{33}$ at deuteron energies of 1,8 and 3,8 MeV. The electrons accelerated with a 72 cm cyclotron bombarded a sulphur target (of 1 micron thickness) which was applied to leaf-gold. The protons produced in connection with the reaction were recorded by nuclear plates.

Angular distributions were determined for two groups of protons po and p1, which correspond to the creation of a nucleus (in the end

. Card 1/3

PA = 2036
The Angular Distribution of the Products of the Reaction $S^{3a}(d,p)S^{3a}$.

state, in the ground state, and in the first excited state). The experimental results obtained by the authors are shown in diagrams. For reasons of comparison these diagrams contain also the corresponding theoretical curves.

The theoretical curves determine the position of the main maximum (i.e. of the maximum in the case of small angles) well in the angular distribution of the proton group p_1 .

In the angular distribution of the group p_0 the experimentally found maximum was somewhat broader than the maximum computed theoretically, and besides it is displaced in the direction of smaller angles? This broadening of the peak and its displacement are considerably more marked in the case of a deuteron energy of 1,8 MeV than for 3,8 MeV. A characteristic peculiarity of the angular distributions obtained here is the existence of comparatively high maxima. These secondary maxima increase with a decrease of the energy of the inciding deuterons. Also in the angular distribution for the group p_1 something similar may be observed.

When explaining the peculiarities of the experimental angular distributions obtained here, it is necessary to take also Coulomb's interaction into account, because the effective Coulomb barrier of the S³³ nucleus amounts to 5,1 MeV for deuterons. However, con-

Card 2/3

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310018-0

PA = 2036 The Angular Distribution of the Products of the Reaction $S^{38}(d,p)S^{33}$.

sideration of Coulomb interaction displaces the main maximum towards larger angles and causes no noticeably secondary maxima. Better agreement is apparently obtained if not only Coulomb's interaction but also nuclear interaction of the emitted proton with the remaining nucleus is taken into account.

ASSOCIATION

Moscow State University

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Card 3/3

TEPLOV, I.B.

AUTHORS: Teplov, I. B., Yur'yev, B. A. 56-6-1/47

TITLE: Investigation of the Reactions K³⁹ (d,p)K⁴⁰ and Ca⁴⁰(d,p)Ca⁴¹.

(Issledovaniye reaktsiy $K^{39}(d,p)K^{40}$ i $Ca^{40}(d,p)Ca^{41}$).

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1957,

Vol. 33, Nr 6, pp. 1313-1320 (USSR)

ABSTRACT: By means of a 72 cm collimated deuteron beam coming from

a cyclotron thin targets of potassium and calcium were irradiated. These targets were located in the middle part of a cylindrical tube of 26 cm diameter. The interior wall

of this tube was lined with nuclear photoplates.

The energy of the deuterons could be kept on the level of

exactly + 40 KeV.

1. The reaction $K^{39}(d,p)K^{40}$ was investigated with 4.0 MeV deuterons. As a natural potassium mixture was used, only three groups of protons of the most frequently occurring K^{39} could be dissolved. The energy of these groups was determined at 0.82 and 2.08 MeV. The proton group, which leads to the ground state of K^{40} , was also found. For these 3 groups of protons the angular distribution and

these 3 groups of protons the angular distribution and the angular cross sections were measured and herefrom

Card 1/3

Investigation of the Reactions $K^{39}(d,p)K^{40}$ and $Ca^{40}(d,p)Ca^{41}$

56-6-1/47

the neutron quantum numbers were derived.

E _d in MeV	proton group in MeV	o in mb	neutron quantum number
4,0 4,0 4,0	0 0,82 2,08	12 13 58	e= 3 e= 3

2. The reaction Ca⁴⁰(d,p)Ca⁴¹ was investigated with deuteron energies of 1.3, 2.2, and 4.0 MeV. For the proton group which leads to the ground state the angular distribution and the corresponding cross sections were measured:

Card 2/3

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310018-0

Investigation of the Reactions $K^{39}(d,p)K^{4c}$ and 56-6-1/47 Ca40(d,p)Ca41

E _d in MeV	proton group in MeV	o in mb
4,0	0	21
2,2	0	2,2
1.3	0	0,04

Especially for K^{40} the angular distribution measured does not agree with that which was computed by means of Butler's theory. There are 7 figures, 2 tables, and 12 references, 3 of which are Slavic.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy

universitet)

SUBMITTED: June 16, 1957

AVAILABLE: Library of Congress

Card 3/3

AUTHORS:

Teplov, I. B., Yur'yev, B. A.

56-2-11/51

TITLE:

The Angular Distribution for Some (d,p)-Reactions

(Uglovyye raspredeleniya dlya nekotorykh reaktsiy (d,p))

PERIODICAL:

Zhurnal Eksperimental noy i Teoreticheskoy Fiziki, 1958,

Vol 34, Nr 2, pp 334-340 (USSR)

ABSTRACT:

The present work gives the results of the additional investigation of the $S^{32}(d,p)S^{33}$, $P^{31}(d,p)P^{32}$ and $C^{135}(d,p)$ class reactions. Furthermore this work gives the angular

distribution for two groups of protons with long ranges wh which are formed in the reaction ${\rm Si}^{28}(d,p){\rm Si}^{29}$ with a

deuteron energy of 4 MeV, as well as for the group of protons formed in the reaction \$32(d,p)\$33 which corresponds to the formation of the final nucleus in the ground state. First the methods of experiment are discussed. The angular distribution of the protons is investigated by means of thick-layer photographic plates of the Hakova- 32 type, all

characteristic features of this eoperiment had already been described in the previous work of the same quthors (reference 7). PhS, $3n_3P_2$ and BaCl₂ were used for the

Card 1/3

The Angular Distribution for Some (d,p)-Reactions

56-2-11/51

production of the thin target. These compounds were evaporated on a basis of gold-leaf. The angular distributions obtained are given in 8 diagrams. The authors point at the differences compared with the results of other works. With chlorine besides the main measurements also secondary measurements were carried out. A table contains the values of the cross sections of the productions of the proton groups investigated. First the angular distributions for the first excited level of \$\,\text{Si}^{29}\$, for the doublet of \$\,\text{F}^{32}\$ and for the ground states of S33 and C136 are investigated. With these 4 experimental angular distributions the most important characteristic feature of the cutoff-reactions can be noticed, i. e. there is a maximum with small emission directions of the protons. There are differences between the experimental and theoretical angular distributions, which all 4 cases have in common. To this belongs a marked background, the displacement of the main maximum to smaller angles (compared with the values calculated according to the theory of S. T. Butler (Batler) (reference 8)), There are 9 figures, 2 tables, and 13 references, 5 of which are Slavic.

Card 2/3

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310018-0

The Angular Distribution for Some (d,p)-Reactions

56-2-11/51

ASSOCIATION:

Moscow State University

(Moskovskiy gosudarstvennyy

universatety

SUBMITTED:

September 9, 1957

AVAILABLE:

Library of Congress

1. Protons-Angular distribution 2. Protons-Distribution-Theory

Card 3/3

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310018-0

24(5)

Komarov, V. V., Neudachin, V. G., AUTHORS:

807/50-35-4-22/52

Popova, A. M., Teplov, I. B.

TITLE:

On the Stripping Mechanism in Reactions With Capture of Two Nucleons (O mekhanizme sryva ${\bf v}$ reaktsiyakh s

zakhvatom dvukh nuklonov)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1950,

Vol 35, Nr 4, pp 974 - 977 (USSE)

ABSTRACT:

The characteristic feature of angular distribution in the stripping reactions (d,p) and (d,n) and in the pickup reactions (p,d) and (n,d) is a maximum within the range of small angles. According to experiments, the pickup process may occur also in the reactions (n,t), (d,t), (d,u), and others. The authors of this paper carried out a qualitative investigation of reactions of the type (n,t),(p,t),(n,He³) and (p,He³) (the reaction (p,t) on Li⁷ was investigated by A.I.

Baz, and A.A.Ogloblin delivered a lecture on this subject at the Moscow Conference on Nuclear Reactions,

Card 1/4

On the Stripping Mechanism in Reactions With Capture SOV/56-35-4-22/52 of Two Nucleons

1957). Investigation of reactions of the general type (n,t) is carried out by two processes: a) The process of "successive stripping" (n-d-t) with the formation of deuterium in the intermediate stage, and b) Direct transition (n-t), the simultaneous capture of two nucleons. The authors investigate the angular distribution of the particles resulting from a) and b), taking account of the shell structure of the nucleus, and derive (in Born's approximation) an expression for the differential cross section, which has the following form:

 $\frac{d\sigma}{d\Omega} = \frac{\frac{M_n M_t}{4\pi^2 h^4}}{4\pi^2 h^4} \frac{k_t}{k_n} \frac{1}{(2S_n+1)(2J_1+1)} I^2.$

Figure 1 shows the course of the curve for the angular distribution of a process of the type a) of the reaction Li7 (p,t)Li5, E = 12 MeV and l= 1. For process a) as well as for process b) the development of angular distribution is very similar to the

Card 2/4

On the Stripping Mechanism in Reaction With Capture of Two Nucleons

507/56-35-4-22/02

somewhat blurred curves characterizing the ordinary stripping process. The difference between a) and b) consists in the fact that in a) the part played in the ordinary stripping theory by the value of the orbital momentum is played here by 1 and in 1) by L. Figure 2 shows the development of the angular distribution of a process b), Li'(p,t)Li⁵ for E = 12 and 35 MeV, L=O and figure 3 shows the same for L= 2. In conclusion, the authors thank S.S. Vasil'yev for discussing the paper, and A.S.Davydov for discussing the questions raised. There are 3 figures

and 15 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

Card 3/4

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310018-0

•	21(7) AUTHORS:	Meudachin, V. G., Teplov, I. B. Shevchenko, O. P.	., 507 /50 - 36-3-30/74
	TITLE:	On the Part Played by the Exchange Offects in Stripping Reactions (O reli obmennykh effektov v reakteiyakh egyza)	
	PERIODICAL:	Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, Vol 36, hr 3, pp 850-853 (USSR)	
	ADSTRACT:	two further processes must be effect, and h) "heavy particle reference; the problem concernstripping cross section was in antisymmetric wave function. It	the "common" stripping recommism, dealt with: a) the knock out stripping" (Refs 2-4). In ming the determination of the vestigated by means of an the present paper the nuthors ple cases. For the amplitudes of (n - 1)I;
	Card 1/3	I ₁ → "common" stripping I ₂ → case n) I ₃ → case b)	n= number of nucleons outside the closed shell in the primary nucleus

On the Fart Played by the Exchange Effects in Stripping Reactions

sov/56-56-3-30/71

In the following, a very complicated explicit equation is given for the amplitude square of process b), $1\frac{1}{2}$.

For the cases a) l = 1, j = 1/2, $J_1 = 1$, $T_1 = 0$ (jj-coupling)

b)
$$l = 1$$
, $L_1 = 0$, $S_1 = 1$, $T_1 = 0$ (LS-coupling)

c)
$$1 = 0$$
, $J_1 = 1$, $T_1 = 0$

and some special reactions the reaction parameters are then calculated; two diagrams very clearly show the calculated curves; figure 1 shows the differential cross section of the reaction $\sin^{29}(d,n)P^{30}$ in the angular range of from 0 to 80° , both for common stripping and for the knock out effect. Figure 2 shows the angular dependence of the differential cross section of the reaction

$$c^{13}(d,n)N^{14}$$
,

Card 2/3

On the Part Played by the Exchange Effects in Stripping Reactions sov/56-56-3-30/71

viz. the curves for common stripping, knock out (jj-coupling), knock out (LS-coupling), and the stripping of heavy particles,

in all cases in the range $0 \le \emptyset \le 180^{\circ}$. There are 2 figures

and 10 references, 2 of which are Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo

universiteta (Institute for Nuclear Physics of Moscow

State University)

September 10, 1958 SUBMITFUD:

Card 3/3

21(7) AUTHORS: SOV/56-37-2-33/56 Neudachin, V. G., Teploy, I. B., Tulinov, A. F.

TITLE:

On the Use of (d,p)-Reactions for the Excitation of States With

Large Spins

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 2(8), pp 548-550 (USSR)

ABSTRACT:

Gol'danskiy suggested that the inelastic scattering of complex nuclei be used for the excitation of nuclear moments with large spins; the authors of the present "Letter to the Editor" show,

on the other hand, that in the case of light nuclei the may be attained by using the (d,p) function. For the or stripping process $\vec{J}_i + \vec{J}_n = \vec{J}_f$, $(\Delta J)_{max} = j$ holds, where

 $\overline{J_i}$ and $\overline{J_f}$ are the spins of the initial and final status is: spectively, $\mathbf{j_n}$ - the total angular momentum of the captured nucleon. Ordinary stripping is forbidden unless this condition is satisfied. In such a case, spin-flip- or knock-out propersis

with the condition $\vec{J}_1 + \vec{J}_{p_1} + \vec{J}_{n_1} = \vec{J}_1 + \vec{J}_{p_2}$, $(\Delta J)_{max} = 30 \text{ Mpc}$

Card 1/3

CIA-RDP86-00513R001755310018-0" **APPROVED FOR RELEASE: 07/16/2001**

so7/56-37-7:3/3

On the Use of (d,p)-Reactions for the Excitation of States With Lize

cur; the indices p and n denote proton and neutron respectively in the inciding deuteron, p2 - the departing proton. It was reseen from the equations that in a knock-out process the factference in the spins may, from the initial to the final colder AJ, attain a much higher value than in the case of the art of stripping process. In order to illustrate these conditions authors carried out a calculation of the proton angular size (bution in the knock-out process $B^{10}(d,p)B^{11*}$ (E_{exc} = 2.14 MeV, $J=1/2^{-}$), for which the ordinary stripping process is forbidden. The calculation was carried out for the energies $\Sigma_{d}=4$, 8, and 12 Mev (R = $4.8.10^{-13}$ cm). Results are shown by figure 1 and are compared with Butler's curves. It was found that 10r all energies the maximum of the curves for the ordinary stripping process is narrower than for the knock-out process. For spin-flip the condition $\vec{J}_1 + \vec{J}_n + \vec{s}_p + \vec{s}_p = \vec{J}_f$, $(\Delta J)_{\text{max}} = j + j$ holds $(\vec{s}_p - \text{proton spin})$. The angular distribution for this

Card 2/3

sov/56-37-2-33/56

On the Use of (d,p)-Reactions for the Excitation of States With Large Spins

process also deviates from that of the ordinary stripping process. The knock-out and the spin-flip process in the (d,p)-reaction are considerably more sensitive to the nuclear Coulomb field, and as, besides, for the excitation of states with large spins the orbital moments of deuterons, which are different from zero, play the principal part, it is best to use deuterons with energies that are several times higher than the Coulomb barrier, e.g. $E_d \approx 15$ Mev for $Z \sim 12$, $E_d \approx 8$ Mev for $Z \sim 5$. At

lower energies the peak again becomes flatter. These conditions

are replained on the basis of the reaction ${\rm Mg}^{24}({\rm dep}){\rm Mg}^{25}$ $(E_{exc} = 1.61 \text{ MeV}, J^* = 7/2^+)$ at 8 MeV (Ref 11). Figure 5 shows

the angular distribution of protons from this process. There are 2 figures and 13 references, 4 of which are Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo uni-

versiteta (Institute of Nuclear Physics of Moscow State Uni-

versity)

May 8, 1959

SUBMITTED: Card 3/3

84386

s/056/60/039/004/004/048 B004/B070

24.6600 AUTHORS:

Teplov, I. B., Shevchenko, O. P., Ruuge, E. K.

Angular Distribution of α -Particles in F¹⁹(p, α)0¹⁶ Reaction

TITLE:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

PERIODICAL: Zhurnal eksperimental noy 1 too. vol. 39, No. 4(10), pp. 923-928

TEXT: The purpose of the present work was to study the angular distribution of alpha particles produced by 5.1-6.5 Mev protons in the reaction $F^{19}(p,\alpha)0^{16}$. The protons were obtained by accelerating molecular hydrogen in the 120-cm cyclotron at the authors' institute. The experimental arrangement is shown in Fig. 1. The proton energy was measured by slowing them in an aluminum foil (10.5μ) . The particles produced in the reaction were recorded by a telescope consisting of three proportional counters. The counters were arranged in a chamber which could be rotated round the target from 0 to 160°. A pulse height analyzer (Fig. 2) was used to separate the alpha particles from the protons.

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84386

Angular Distribution of α -Particles in $F^{19}(p,\alpha)0^{16}$ Reaction

S/056/60/039/004/004/048 B004/B070

fluoroplastic target is bombarded with 6.6-Mev protons. The angular distribution of long range particles produced in the reaction $F^{19}(p,\alpha)0^{16}$ and corresponding to the formation of 016 nucleus in the ground state $(Q_{c} = 8.12 \text{ MeV})$ was measured for eleven proton energies between 5.15 and 6.68 Mev. The results in the center of mass system are represented in Fig. 4. All the observed angular distributions were strongly anisotropic. The angular distributions obtained experimentally are compared with those calculated on the assumption of direct processes in Fig. 5. The strong dependence of the angular distribution on the proton energy indicates that the mechanism of reaction plays a decisive role. From the study of cross sections and differential cross sections for 30, 90, and 150° (Fig. 6), the authors conclude that when the proton energies lie between 5.1 and 6.5 Mev no particular mechanism of reaction is predominant; direct processes as well as the formation of compound nuclei takes place in this range. The authors thank B. V. Devichev for help in the work. There are 6 figures and 10 non-Soviet references.

Card 2/3

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310018-0

84386

Angular Distribution of α -Particles in $F^{19}(p,\alpha)0^{16}$ Reaction

s/056/60/039/004/004/048 B004/B070

Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of the Moscow State University) ASSOCIATION:

SUBMITTED:

May 6, 1960

card 3/3

LUK'YANOV, A.V.; TEPLOV, I.B.; AKIMOVA, M.K.; DITKIN, V.A., prof., otv. red.; KORKINA, A.I., tekhn. red.

[Tables of Coulomb wave functions (Whittaker functions)] Tablitsy volnovykh kulonovskikh funktsii (funktsii Uittekera). Moskva, Vychislitel'nyi tsentr AN SSSR, 1961. 22p p. (MIRA 14:7) (Coulomb functions—Tables, etc.)

31780 s/056/61/041/006/027/054 B102/B138

24.6600

AUTHORS:

Sukharevskiy, V. G., Teplov, I. B.

Coulomb and nuclear interaction in deuteron stripping reactions

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 41,

no. 6(12), 1961, 1842-1844

TEXT: The differential cross sections of the reaction Si³⁰(d,p)Si³¹, induced by 4.25 Mev deuterons was calculated. Coulomb and nuclear interaction was taken into account. Calculations were carried out for formation of the Si³¹ nucleus in the ground state (1,-2,Q-4.36 Mev) and for its formation in the first excited state $(1_n = 0, Q = 3.61 \text{ MeV})$. maximum orbital momenta of deuteron and oroton were taken to be 6 and 8, maximum orbital momenta of deuteron and orbiton were taken to be o and o, respectively. The angular distributions were calculated for three cases:

1) Coulomb and nuclear interactions neglected; distribution agrees with Butler's (R=6.5·10⁻¹³cm). 2) Allowing only for Coulomb interaction. 3) Allowing for both for the rigid-sphere model with 5.5.10 -13 cm radius and Card 1/3

31780 \$/056/61/041/006/027/054 B102/B138

Coulomb and nuclear interaction in ...

deuteron scattering from the sphere with $R=6.5\cdot 10^{-13} cm$. For the ground state the Coulomb interaction causes the main peak to shift $\sim 15^{\circ}$ to larger angles; in Born's approximation it is at 45° . Nuclear interaction shifts the peak 20° in the other direction. The angular distributions are slightly different from the Butler shape at small angles and have non-vanishing cross sections in the minima. Coulomb and nuclear corrections reduce the cross section values by a factor $N: \sigma(N) = N\sigma_{o}(N)$, $\sigma_{o}(N)$ is the differential cross section according to Butler. For deuteron energies of 4.25 Mev in the laboratory system and $E_d/B = 1.1$ in the c. m. s. (B - nuclear Coulomb barrier), the following corrections were calculated: For 1 = 0, $N_{coul} = 0.27$ and $N_{coul} = 0.008$. For 1 = 2, $N_{coul} = 0.03$ and $N_{coul} = 0.004$. In no case is the $N_{l=o}/N_{l=2}$ ratio far from unity. This means that the Butler theory can be used to calculate reduced-width ratio for final-state analyses. There are 1 figure, 1 table, and 3 references: 2 Soviet and 1 non-Soviet. The reference to the English-

Card 2/3

31780 S/056/61/041/006/027/054 B102/B138

Coulomb and nuclear interaction in ...

language publication reads as follows: W. Tobocman, M. H. Kalos. Phys. Rev. 97, 132, 1955.

ASSOCIATION:

Institut yadernoy fiziki Moskovskogo gosudarstvennogo

universiteta (Institute of Nuclear Physics of Moscow State

University)

SUBMITTED:

May 4, 1961

X

Card 3/3

"APPROVED FOR RELEASE: 07/16/2001 CIA-R

CIA-RDP86-00513R001755310018-0

TEPLOV, I. B., MAN'KO, V. I., and SALATSKIY V. I.

"Studies on the mechanism of nuclear reactions"

Report presented at the Conference on Nuclear Reactions produced by light nuclei, Dubna, December 1962.

TEPLOV, I.B.; DMITRIYEV, I.S.; TEPLOVA, Ya.A.; SHEVCHENKO, O.P.

Study of excited states of Be⁸ with the aid of the reaction
Id. (p, a) He⁴. Izv. AN SSSR. Ser. fiz. 26 no.9:1150-1153 S
(MIRA 15:9)

(Nuclear reactions) (Beryllium—Isotopes)

S/056/62/042/001/033/048 B125/B102

AUTHOR:

Teplov, I. B.

TITLE:

A possible explanation of the behavior of the differential cross section of the reactions (p,α) and (α,p) in the region of large angles

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

TEXT: The peaks of the differential cross section of the reactions (pp.) and (&,p) at large angles are calculated on the assumption of a process with local interaction in Born's approximation with plane waves by using

 $\langle V \rangle = \int \psi_{\ell m}^{\bullet} (r) \psi_{0(\ell m)}^{\bullet} (s) V(r) \psi_{0\ell} (R) \psi_{m(0\ell)} (\rho) \times$ $\times \exp [i (kr + qp + QR)] drdpdR.$

of the transition matrix. The subscripts i,f, and m directly refer to the transitions m, m, and m, the subscript O refers to that part of the

Card 1/1/

S/056/62/042/001/033/048
A possible explanation of the behavior ... B125/B102

nucleus which participates indirectly in the reaction so that $M_1 = M_0 + m_f + m$, $M_f = M_0 + m_i + m$. In this case

$$R = r_0 - r_I, \qquad \rho = r_m - \frac{M_0 r_0 + m_I r_I}{M_0 + m_I},$$
 (3)

holds with

 $S = -\vec{p} + \frac{m_f}{M_i + m} \vec{R} - \frac{m_i}{m_i + m} \vec{r}$ and the wave vectors in the exponent under the integral sign have form

> $k = k_l + \frac{m_l}{M_l} k_l$, $q = \frac{M_l - m}{M_l} k_l + \frac{m_l + m}{M_l} k_l$. (5). $Q = \frac{M_0 \left(M_l + m_l \right)}{M_1 \left(M_l - m \right)} \, \mathbf{k}_l.$

 $k = k_2$ and the vector \vec{q} has the same nature as \vec{k}_1 but depends more strongly. on the angle. If a heavy particle is knocked out (the special case of a Card 2/93

 $$\rm S/056/62/042/001/033/048$ A possible explanation of the behavior ... B125/B102 process with local interaction with $M_0 = 0$) q = k, Q = 0. In an initial nucleus consisting of some < -particles and a triton, the impinging proton interacts with a triton-type substructure. The -particle forming in this connection remains in the nucleus and another -particle leaves the nucleus. If $m_i/(m_i + m)/r = r/4$ can be neglected and if the wave function in (2) can be replaced by a -function, then the wave functions o(im) and of for a final nucleus in the ground state are spherically symmetric and the matrix element is

$$\langle V \rangle \sim (\kappa^2 + k^2) \exp(-k^2/12\gamma^2) \sin\beta \sum_{L,l,M,m} i^{L+l} \sqrt{(2l+1)/(2L+1)},$$
 (6)

 $P_L(\cos\beta) C_{mm,M}^{ll,L} C_{mm,M}^{ll,L} (QRo) j_l(qpo) Y_L^M(\vartheta_Q, \varphi_Q) Y_l^{mo}(\vartheta_q, \varphi_q),$

$$x^{2} = \frac{2mm_{t}}{h^{2}(m+m_{t})} \epsilon = \frac{3mp}{2h^{2}} \epsilon, \qquad \cos \beta = \frac{M_{t}R_{0}}{2m_{\alpha}p_{0}} \left(\frac{p_{0}^{2}}{R_{0}^{2}} - 1 + \frac{m_{\alpha}^{2}}{M_{t}^{2}}\right). \tag{7}.$$

Card 3/75

S/056/62/042/001/033/048 A possible explanation of the behavior ... B125/B102

denotes the orbital moment of the triton in the initial nucleus and is the binding energy of the proton in the *-particle. The dependence of * (180°) on the **-particle energy for C¹²(,,p)N¹⁵ calculated with (6) is in satisfactory agreement with the experimental data for the angle of departure of 170° (Fig. 1). The present results are only qualitative. While local-interaction processes explain the peaks of the cross section at large angles, the inverse peaks can be explained also by an ordinary stripping process with distorted waves. V. G. Neudachin is thanked for discussions. There are 2 figures, 1 table, and 10 references: 1 Soviet and 9 non-Soviet. The four most recent references to English-language publications read as follows: J. R. Priest, D. J. Tendam, E. Bleuler. Phys. Rev., 119, 1301, 1960; P. R. Klein, N. Cindro, L. W. Swnson, N. S. Wall. Nucl. Phys., 16, 374, 1960; A. J. Kromminga. I. E. McCarthy. Nucl. Phys., 24, 36, 1961; M. el Nadi. Phys. Rev., 120, 1360, 1960.

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ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudaratvennogo universiteta (Institute of Nuclear Physics of the Moscov State University)

Card 4/17/

A possible explanation of the behavior ... B125/B102

SUBMITTED: July 23. 1961

Fig. 1: Dependence of the cross section at an angle of 180° on the energy of the \times -particles for the reaction $c^{12}(x,p)N^{15}(R_{\circ} = 6\phi, \rho_{\circ} = 5\phi)$. The experimental points refer to the angle of 170° . Legend. (0) according to J. R. Priest et al., Phys. Rev. 119, 1301. 1960; (x) according to I. Nonaka et al., J. Phys. Soc. Japan., 14, 713, 1959).

Fig. 2: angular distributions of the α -particles for the reaction $F^{19}(p,\alpha)0^{16}$ at the following parameter values: $a - R_0 = 4.89$. Legend: (1) α , degree.

Card 5/7

34634 \$/036/62/042/002**/**007/05 B:02/B:38

24.6600

AUTHORS. Teplov, I. B., Dmitriyev, I. S., Teplova, Ya. A., Shevohenko.

PITLE Investigation of α particle angular distribution in L. (ρ,α.Hat

PERTODICAL Zburnal eksperimentalincy i teoreticheskcy fiziki, m. 42, no. 3, 1962, 353 - 357

TEXT. The angular distributions of the α -particles from Li $^{7}(p,\alpha)$ He 4 reasetions were measured in the range 20 - 6 Ge 6 for E = 5.78, 6.75 and 6.75 Messusing a telescope arrangement of three proportional counters, and Li $_{2}$ Ge 6 targets 0.16, 0.52, and 0.92 mg/cm 2 thick corresponding to energy losses of 6-MeV protons of 13, 41 and 70 keV. The angular distributions were oftened as $d\sigma/d\Omega$ - $(67/4\pi)$ [1 + A $P_{2}(x)$ + A $A_{4}P_{4}(x)$] with

Card 1/3

Investigatio:	i of d -particl	\$ /0 36/62/042/002/007/ B102/B-38	\$\ 0 36\62\042\002\000\005 B102\B=38	
R _p , Mev	A .	$\mathbf{A}_{\mathcal{D}}$	A	
6.55 6.55 5.78	-0.169 -0.357 -0.717	-0.167 -0.356 -0.693	-0.102 -0.010 -0.085	
measamed for	3,456 5 66	5.55 Mev (ang - 5.3≤E ≤ 6.	The excitation curves were to of &-particle emission. 50° in company on ourse of the Language	

Investigation of d-particle...

S/036/62/044/002/007/099

references: 2 Soviet and 7 non-Soviet. The four most recent references: English-language publications read as follows: J. M. Freeman et al. 1998; F. Ajzenberg, T. Lauritsen. Nucl. Phys. 2, 148, 1958; F. Ajzenberg, T. Lauritsen. Nucl. Phys. 7, 1959; F. Hirst et al. Phil, Mag. 42, 762, 1954; J. H. Gibbouc, R. L. Macklin.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gesudarstvennege universiteta (Institute of Nuclear Physics of Moscow State

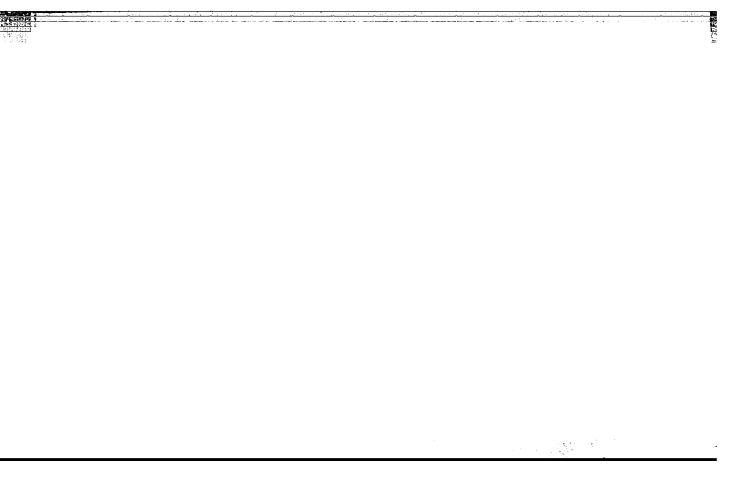
SUBMITTED: June 18, 1961

TEPLOV, I.B.; ZAZULIN, V.S.; FATEYEVA, L.N.

Telescope for studying nuclear reactions. Vest. Mosk. un. Ser. 3: Piz., astron. 18 no.6:3-12 N-D 163. (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskego gosudarstvennogo universiteta.

5



USSR/Nuclear Physics - Nuclear Reactions.

C-5

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 8828

Author

: Teplov, I.S.

Inst

: Moscow State University

Title

: Investigation of Reactions of the Type (d, p) in

Phosphorus and Chlorine.

Orig Pub

: Zh. eksperim. i teor. fiziki, 1956, 31, No 1, 25-30

Abst::act

: Using Ia-2 photographic plates (100 microns), measurements were made of the angular distributions of protons forming in the P31 (d, p)P32 and C135 (d, p)C136 reactions. A beam of deuterons of approximately 4 Mev was taken from a cyclotron and focused. To absorb the elastically-scattered deuterons there was placed between the target in the photographic plate an aluminum absorber 320 microns thick. The obtained data were used to determine the values of the x orbital angular momenta of the protons in the reactions P31 (d,p) and C135 (d, p) with formation

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USSR/Nuclear Physics - Nuclear Reactions.

C-5

Abs Jour : Ref Zhur - Fizika, No 4, 1957, 8828

of final p^{32} and cl^{36} nuclei in various states and to determine the parities of these states. Conclusions are drawn concerning the possible values of the spins of the studied states of the p^{32} and cl^{36} nuclei and concerning the probable configurations of some of these states from the point of view of the shell theory.

Card 2/2

TEPLOVA, Ye.D., kand.tekhn.nauk; TEPLOV, T.S. inzh.; MIRONENKO, Ye.A., tekhnik

Effect of nickel and copper on the temper brittleness of structural chromium-molybdenum-vanadium steel. Metallovedenie 3:39(MIRA 14:3)

(Chromium-molybdenum steel-Brittleness)

TEPLOY, I. V.

"Angular Distribution of 832(d,p)833 Reaction Products," by I. V. Teplov, B. A. Yur'yev and T. N. Markelova, Moscow State University, Zhurnal Eksperimental'noy I Teoreticheskoy Fiziki, Vol 32, No 1, Jan 57, pp 165-166

This work describes measurements of the angular distribution of protons emitted S³²(d,p)S³³ reactions. Deuterons with energies 1.8 and 3.8 Mev were used. Comparision between experimental results and a theoretical distribution computed by Bhatia and others (Phil Mag, 43, 485, 1952) showed the experimental results to have a wider maximum than predicted by the theory. The intensity of a secondary maximum was greater than expected. The article notes that Holt and Marsham (Proc Phys Soc, A66, 467, 1953) found good agreement with this theoretical curve in an experiment with 8.18 Mev deuterons.

54M.1391

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755310018-0 ou, K.P. USSR/Cultivated Plants. Technical. Oleaginous. Sugar-Bearing. Abs Jour : Ref Zhur - Blologiya, No 16, 25 Aug 57, 69307 AuthorInst Title : Yields of Mustard in Leading Collective Farms in Balashov L-5 Orig Pub : V. sb.: Kratkiy otchet o nauch.-issled. rabote Vses. n.-i. in-ta maslich. i efiromaslich. kultur VASKhNIL za 1955 g. Abst : No abstract. card 1/1

Cybernetics. (Conclusion) Nauka i tekh mladezh no.4:3-5, 29 F *57.

TEPLOV, L., inzhener, sportsmen 1-go razryada.

Six-control apparatus for radio-controlled airplane models, Ergl. roi.
8 no.5:22-25 Wy '57.

(Airplanes--Models--Radio control)

(Airplanes--Models--Radio control)

85-58-4-26/36

AUTHOR: Teplov, L., Engineer, Sportsman 1st Class

TITLE: Relay for Multi-Control Aircraft Modeling Radio Equipment (Rele dlya mnogokomandnoy aviamodel'noy radicapparatury)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 4, pp 25-28 (USSR)

ABSTRACT: The author describes in detail the home-made polarized and resonance relays referred to in Kryl'ya Rodiny, 1957, Nr 5, dealing with a six-control device for a radio-controlled model airplane. There are 25 drawings.

AVAILABLE: Library of Congress

1. Airplanes-Model-Control systems

Card 1/1

AUTHOR:

Teplov, L.

SOY/29-58-9-23/30

TITLE:

Teleobjective by Maksutov (Teleob"yektiv Maksutova)

PERIODICAL:

Tekhnika molodezhi, 1958, Nr 9, pp 33 - 33 (USSR)

ABSTRACT:

A reporter from the periodical "Tekhnika molodezhi" paid a visit to the famous Soviet optical scientist D.D. Maksutov in the Observatory of Pulkovo. Here he was confronted with one of the last works of the scientist, with the meniscus-teleobjective. Photographs taken during his visit (Figs 1,2,3) show that Maksutov created a device which is irreplaceable in almost all kinds of photographs in nature. The ordinary object lens of the "Zenit" camera, the "Industar-22" comes with a focal length of 5 cm. The telephoto lens by Maksutov, however, has a focal length of 50 cm. That means that it produces a picture enlarged to a scale of 10. It has an overall length of 19 cm, a diameter of 9 cm and it weighs 900 gr. The optical surfaces are all spherical. The essential feature of this objective is that Maksutov applied the principle of a catadioptric or of a meniscus telescope.

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There are 3 figures.

AUTHOR:

Teplov, L.

29-3-12/25

TITLE:

Doctor Leysber's Present (Podmok doktora Leysbera)

PERIODICAL: Tekhnika Molodezhi, 1950, Vol. 26, Nr 3, pp. 17-10 (USSR)

ABSTRACT:

As mentioned in the epilogue, this report was not written in view of making propaganda for the achieve ents in the field of modicine. The author rather intended - within the frame of an extraordinary situation - to persuade the reader that a really human behavior and unselfish love are able to conquer a vice, no matter how obdurate it may be. Yet it is interesting also from the medical point of view, whether such an 'operation" would be possible at all. The thorough separation of the modulia oblongata through the rear part of the inter- brain has already been frequently applied with animal experiments and is called decerebra tion. It was observed that the respiratory actions and respiratory reflections (conching, sneezing), as well as the regulation of the disention and of the circulation of the blood resained quite normal. A shock as it occurs with the damaging of the spinal cord, was not observed. Lodern

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octor Leysber's Present

29-5-12/25

surgery achieved preat success in the field of cranium and cerebral operations. According to reports of the Polish press, the left hemisphere with an acute inflammation was removed from a young girl in Tarsaw in 1957. Due to the fact that all analysers are twice present in the brain, the right hemisphere took over all functions and the Lirl recovered. It would be much more complicate to preserve the functioning of the inter-brain and front-brain, especially of the grey substance of the two hemispheres which were separated during the transplantation. Apparatus for the artificial circulation and hypothermy should have been used most presumably (undercooling of the brain by lo to 12° below the normal temperature). With hypothermy the sensitiveness of the cells decreases, but is completely restored afterwards. A possible incongruity of the nerve-tracts would presumably be reme died without difficulty. The Soviet physiologist P. K. Anokhin directed the nerve-tracts intentionally in opposed directions. Yet the functions normalize after some time. The greatest difficulty with transplantations consists in the fact that the organism is hypersensitive against foreign albumen and that it endeavors to destroy these inclusions. Science is not yet in a position to carry out such an operation successfully. Brain-Surgery-Theory 2. Brain surgery-Physiological

Card 2/2

AUTHOR:

Teploy, L.

SOV/29-58-8-20/23

TITLE:

The Electron in Representative Art (Elektron v izobrazitel'nom

PERIODICAL:

Tekhnika molodezhi, 1958, Nr 8, pp. 37-39 (USSR)

ABSTRACT:

In this article the author tells how it is possible to utilize distortions occurring with the transformation of an image during electronic transmission for purposes of art. He explains transformation in connection with scanning. Figure 1 shows a simple device for direct- and for back-scanning such as is, e.g. used in telephotography. To the left of it there is a multicolored picture and to the right a picture in one color only. This is the result of color transformation. This system has, however, two disadvantages. Firstly, this device cannot operate at high speeds, and secondly transformation of a polychromous into a monochromous picture is inevitable because only one channel of color characteristics exists. Figure 2 shows a more complete scanning system. It is sometimes necessary to bring out the dark hues and to weaken transitions in brighter hues. This can be accomplised by means of a lamp, the characteristics of which are shown by a diagram (Fig 3). In electronics relays are used. These devices

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are described by a diagram (Fig 4). If several relays with different stages of sensitivity are arranged according to different channels of color characteristics, it is possible to obtain interesting placardlike transformations (Fig to the right of 4). By means of higher mathematical computations it is possible to detect blurred contours (Fig 5). After having determined the contours it is possible to obtain a sharp picture on the kinescope screen. In order to obtain deep shades or light-effects in a picture, the raster method as is used by engravers and printers, is employed. In 1927 the inventor Ayvs recommended a method by means of which a raster can be produced by scanning. The image is projected on to a film of an illuminated diaphragm which is regulated by means of an electromagnet and which contracts and expands. In a similar manner it appears to be possible to obtain rasters also on a kinescope screen (Fig 7). All this is necessary in order to attain the greatest possible number of impressive effects in a televisionor film performance, because touching up by hand is not possible. The first new achievement in the field of the electronic transformation of images was the construction of some complicated

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The Electron in Representative Art

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automatic devices in the USA which serve the purpose of touching up colored photos to be reproduced in books or periodicals. The scheme of the color separator and of the corrector of the periodical "Time-Life" ("Taym-Layf") is shown by figure 8. Gradually, electronic automatic machines will probably be used also for more complicated work. There are 11 figures.

- 1. Pictures--Transmission 2. Cathode ray tubes -- Performance
- 3. Televisions 4. Iconoscopes

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CIA-RDP86-00513R001755310018-0" APPROVED FOR RELEASE: 07/16/2001

28(2)

AUTHOR:

Teplov, L.

SOV/29-59-2-4/41

TITLE:

Brain and Machine (Mozg i mashina)

PERIODICAL:

Tekhnika molodezhi, 1959, Nr 2, pp 5-6 (USSR)

ABSTRACT:

In this popular-scientific article, the author tries to compare the human brain and the machine. For centuries mankind has admired the function of the brain and tried to explain it in various ways. The first to compare the human brain with a machine was René Descartes (1596-1650). Later, the great Russian scientist Ivan Petrovich Pavlov (1849-1936) compared the brain with a telephone exchange. But all these comparisons were incomplete. The modern electron calculators designed 10 years after Pavlov's death are much more similar to the brain. The elements of the calculator, especially the triggers, strongly remind its nerve cells. They can forward signals in one direction and record two extrems terms. Besides, they can confront signal series to each other and form and retransmit signals according to the most simple rules of logic. Automatic translations, solutions of chess problems and many other tasks carried out by electron calculators have shown a great similarity to the function of the brain. Yet they work in a way different from

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